	Application No.	Applicant(s)
Notice of Allowability	10/807 027	HO ET AL.
	10/807,927 Examiner	Art Unit
	Shawn S. An	2621
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to	•	
2. The allowed claim(s) is/are <u>1-9</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:	-	
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINE es reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the draw he header according to 37 CFR 1.121	rings in the front (not the back) of I(d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/27/04	Paper No./Mail Da 7.	Iment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statem	ent of Reasons for Allowance
-	9.	•

Application/Control Number: 10/807,927

Art Unit: 2621

Reasons for Allowance

1. Claims 1-9 are allowed.

2. The following is an Examiner's statement of reasons for allowance.

Claim 1 recites novel features of an apparatus for converting a two-dimensional image to a three-dimensional stereoscopic image to display the converted stereoscopic image on a display, comprising:

a current sample image acquisition unit for acquiring a current sample image, obtained by sampling a current input image provided by an image source;

a previous sample image acquisition unit for acquiring a previous sample image, obtained by sampling a previous input image provided by the image source;

a motion detector for detecting a moving pixel and a still pixel through comparison between corresponding pixels within the current and previous sample images;

a region splitting unit for splitting the current sample image into a plurality of search regions and generating a representative value of the moving pixel in each search region using information about the moving pixel detected by the motion detector,

a depth map generator for <u>determining a moving pixel group constructing an</u>
<u>object moving in each search region using the representative value of each search</u>
<u>region and setting a small weight value for the moving pixel group, to generate a depth</u>
<u>map image having the resolution of the original input image</u>; and

a positive parallax processor for generating a left-eye image and a right-eye image such that the depth map image is displayed on the display in such a manner that the moving pixel group is located before the screen of the display and remaining pixel groups are arranged behind the screen.

The prior art of record fails to anticipate or make obvious the novel features (emphasis added on <u>underlined claim limitations</u>) as stated above.

Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 3. The prior art made of record is considered pertinent to Applicant's disclosure.
- A) Yamashita et al (7,161,614 B1), Device and method for converting 2-D video to 3-D video.
- **4.** Any inquiry concerning this communication or earlier communications from the Examiner should be directed to *Shawn S. An* whose telephone number is 571-272-7324.
- **5.** The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SHAWN AN PRIMARY EXAMINER